

ABSTRACTPLATELET-DERIVED GROWTH FACTOR RECEPTORS

5 DNA sequences encoding human platelet-derived growth
factor receptors (hPDGF-R), and expression constructs
comprising sequences which encode a receptor that can be
secreted or incorporated into the membrane of a mammalian cell.
Peptide fragments with functions equivalent to the wild-type
10 receptor, conferring a PDGF-sensitive mitogenic response on
cells lacking the receptor are provided. The constructs can be
used for enhancing PDGF response of cells, determining the
regions involved in transducing the signal in response to PDGF
binding, providing mutated analogs and evaluating drugs for
15 their physiologic activity. Soluble fragments comprising PDGF
receptor sequences are also provided, including important
intracellular kinase insert sequences which interact with
intracellular proteins.